

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-State
Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

(formerly Eaton)

Brand: METALUX

Report Number: P277232

Luminaire Tested: **22CZ2-29HE-UNV-L82765-W2A1-U-3500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P277232
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1805-783-27)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 22CZ2-29HE-UNV-L82765-W2A1-U-3500K
Description: CRUZE 2.0 2x2 TUNABLE WHITE LED TROFFER
WITH RIBBED LENS
Light Source: (168) 80 CRI LEDS TUNED TO 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2595.0 lumens
Efficiency: N/A
Efficacy: 124.0 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.27 / 1.36
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

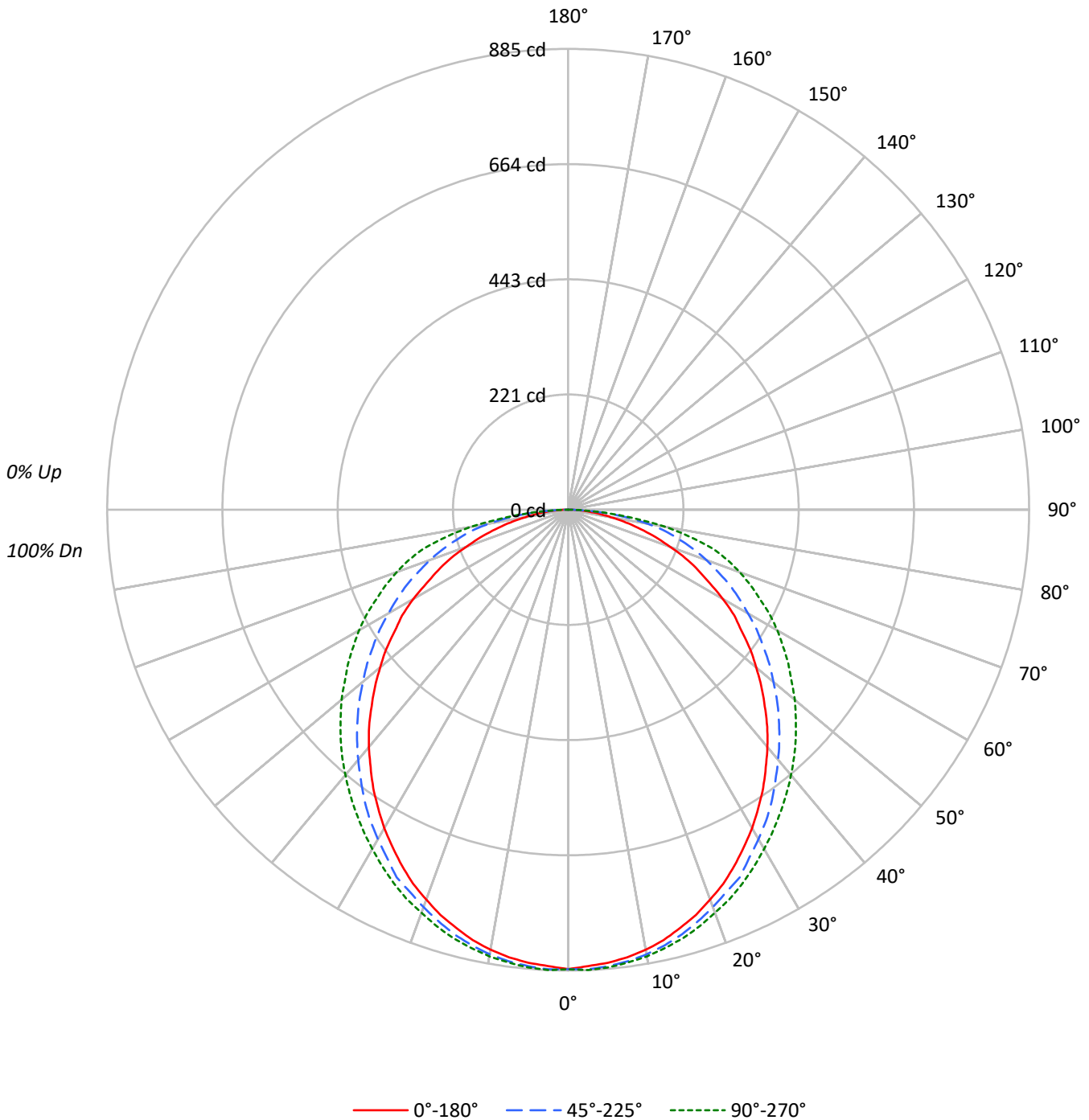
Input Watts (W): 20.925
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20					20					20					20					20					
RC	80					70					50					30					10					0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0		
RCR																										
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100					100			
1	108	103	98	94	105	101	96	93	96	93	90	92	90	87	89	86	84	82					82			
2	98	89	82	76	95	87	81	75	84	78	73	80	76	71	77	73	70	68					68			
3	89	78	69	63	86	76	68	62	73	66	61	70	65	60	68	63	59	56					56			
4	81	69	60	53	79	67	59	52	65	57	52	63	56	51	60	55	50	48					48			
5	75	61	52	45	72	60	52	45	58	50	44	56	49	44	54	48	44	41					41			
6	69	55	46	39	67	54	46	39	52	45	39	51	44	39	49	43	38	36					36			
7	64	50	41	35	62	49	41	35	48	40	34	46	39	34	45	39	34	32					32			
8	59	46	37	31	58	45	37	31	44	36	31	42	35	30	41	35	30	28					28			
9	56	42	34	28	54	41	33	28	40	33	28	39	32	27	38	32	27	25					25			
10	52	39	31	25	51	38	30	25	37	30	25	36	30	25	35	29	25	23					23			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2374	2374	2374
5°	2359	2377	2383
10°	2345	2369	2380
15°	2316	2351	2373
20°	2282	2326	2359
25°	2241	2313	2351
30°	2194	2270	2337
35°	2144	2240	2332
40°	2090	2203	2337
45°	2031	2177	2352
50°	1973	2154	2379
55°	1905	2145	2420
60°	1849	2144	2495
65°	1756	2179	2586
70°	1637	2220	2753
75°	1500	2297	2974
80°	1306	2394	2929
85°	1142	2130	2325



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	83.4	3.2
10°-20°	237.7	9.2
20°-30°	356.8	13.7
30°-40°	426.3	16.4
40°-50°	443.3	17.1
50°-60°	410.9	15.8
60°-70°	337.0	13.0
70°-80°	227.8	8.8
80°-90°	71.6	2.8
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	677.9	26.1
0°-40°	1104.3	42.6
0°-60°	1958.5	75.5
0°-90°	2595.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2595.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	882	882	882	882	882	
5°	873	875	880	881	882	83
15°	831	835	844	849	852	234
25°	755	761	779	788	792	348
35°	652	661	682	702	710	408
45°	534	544	572	605	618	412
55°	406	419	457	498	516	365
65°	276	291	342	387	406	273
75°	144	169	221	266	286	153
85°	37	51	69	77	75	42
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	882.3	882.3	882.3	882.3	882.3
2.5°	877.2	879.8	883.6	884.9	884.9
5°	873.4	874.7	879.8	881.1	882.3
7.5°	867.0	869.6	874.7	876.0	877.2
10°	858.1	860.6	867.0	869.6	870.9
12.5°	846.6	849.1	856.8	860.6	861.9
15°	831.3	835.1	844.0	849.1	851.7
17.5°	815.9	819.8	828.7	836.4	838.9
20°	796.8	805.7	812.1	822.3	823.6
22.5°	777.6	782.7	794.2	804.5	809.6
25°	754.7	761.0	778.9	787.9	791.7
27.5°	730.4	739.3	753.4	767.4	772.5
30°	706.1	712.5	730.4	747.0	752.1
32.5°	679.3	688.3	707.4	724.0	731.7
35°	652.5	661.4	681.9	702.3	710.0
37.5°	623.1	633.3	653.8	678.0	688.3
40°	595.0	602.7	627.0	656.3	665.3
42.5°	565.7	574.6	600.1	632.1	642.3
45°	533.8	544.0	572.1	605.3	618.0
47.5°	503.1	513.3	544.0	577.2	592.5
50°	471.2	484.0	514.6	552.9	568.2
52.5°	440.5	452.0	486.5	526.1	540.1
55°	406.1	418.8	457.1	498.0	515.9
57.5°	378.0	386.9	429.0	471.2	489.1
60°	343.5	355.0	398.4	443.1	463.5
62.5°	306.5	325.6	370.3	416.3	436.7
65°	275.8	291.1	342.2	386.9	406.1
67.5°	243.9	260.5	310.3	357.5	379.2
70°	208.1	229.8	282.2	329.4	349.9
72.5°	176.2	199.2	252.8	298.8	320.5
75°	144.3	168.6	220.9	265.6	286.0
77.5°	113.6	140.5	191.5	226.0	238.8
80°	84.3	109.8	154.5	178.8	189.0
82.5°	58.7	80.4	113.6	126.4	129.0
85°	37.0	51.1	69.0	76.6	75.3
87.5°	16.6	20.4	25.5	28.1	26.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)